BRUHAT BANGALORE MAHANAGAR PALIKE

PED FORM -45 (Work Slip)

NAME OF WORK: Modified Estimate for Improvements to Roads, Drains and Constructions of Culverts at Amruthahalli and Surrounding areas in Ward No. 09, Amruthahalli.

CONTRACTOR NAME:-Sri M Prakash

Estimated Cost : Rs 75.00 Lakhs

Tender Approved cost : Rs 66,72,536.13

Job Number :- 009-23-000013

WORK ORDER NO:-BBMP/EE/BTP/WO/170/2022-23, Dated 18.03.2023

Sl. No.	Description of work	Unit	As per Sanctioned Estimate			As per Tender			Total Executed Qty	Qty up to 125%			Qty above 125%			Total Amount	Excess Amount	Savings Amount	REMARKS
						Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount				
1	3	4				8	9	10	11	12	13	14	18	19	20		21		
1	Earth work Excavation by manual means for drains,canals, waste weir, drsft, approach ' channels, key trenches, foundation of bridges and such simillar	cum	698.60	204.60	142933.56	698.60	214.81	150066.27	431.60	431.60	214.81	92711.00	0.00	0.00	0.00	92711.00	0.00	57355.27	
2	Providing and laying in position Plain ' Cement Concrete Mix 1 :3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well i . compacted using plate vibrators, including ' all lead & lifts, cost of all materials of ; quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1 .3)	cum	97.05	6109.40	592917.27	97.05	6414.26	622503.93	58.05	58.05	6414.26	372347.00	0.00	0.00	0.00	372347.00	0.00	250156.93	
3	Providing and laying in position Rein forced cement concrete for art Sub structures of building, lirrigation works, Sub structure works of bridges, Drain worlds & other parallel works from 0.50 to 3.50 mtr height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per re levant IS Codes machine mixed with sri per plastic isers, laid	Cum	205.28	6893.04	1415003.25	205.28	7237.00	1485611.36	136.17	136.17	7237.00	985462.00	0.00	0.00	0.00	985462.00	0.00	500149.36	
4	Supply ing, Fitting and P lacing un-coated TMT bar Reinforcement in sub-structui e complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021 -22 Vol -II I	Tonne	12.44	101387.00	1261254.28	12.44	106446.21	1324190.85	8.31	8.31	106446.21	884631.00	0.00	0.00	0.00	884631.00	0.00	439559.85	

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						Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount				
1	3	4				8	9	10	11	12	13	14	18	19	20		21		
5	Provi[illegible] and laying in position Rein forced cement conci ete for art Sub structures of bui lding, li i igation works, Sub str uctui e wolks of bridges, Drain worlds & other paral le1 woi ks from 0.50iii to 3.50 rn he ight.The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per re levant IS Codes machine mixed with sri per plastic isers, laid in layers, well compacted using need le vibrators, providing upon holes wlici ever necessry	Cum	3.60	6468.00	23284.80	3.60	6790.75	24446.70	2.70	2.70	6790.75	18335.00	0.00	0.00	0.00	18335.00	0.00	6111.70	
6	Providing and fixing pre cast covering slab made out of CC 1:2:4 with 10cm thick and finishing cutting including form work, curing , including cost of all materials , labour,hire charges of machinery,loading unloading lead and lift ,transportation etc complete .(Data Rate)	Sqm	463.50	2337.00	1083199.50	463.50	2453.62	1137252.87	355.20	355.20	2453.62	871525.00	0.00	0.00	0.00	871525.00	0.00	265727.87	
7	Providing and Fixing pre cast covering slab 250mm thick made out of CC 1:2:4 and jelly 25mm down size with steel reinforcement including form work ,curing,including cost of all materials ,labour, hire charges of machinery ,loading unloading lead and lift ,transportation etc complete as per engineer incharge	Sqm	12.00	5418.00	65016.00	12.00	5688.36	68260.32	14.40	14.40	5688.36	81912.00	0.00	0.00	0.00	81912.00	13651.68	0.00	
8	Providing ,laying , spreading and compacting graded stone aggregates to wet mix Macadam specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site ,laying in uniform layers with pavers/grader in sub -base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH specification No.406(Pwd SR 21-22 VolII Pg no 24 Item No.4.27(A))	Cum	117.72	2633.40	310003.85	117.72	2764.81	325473.43	125.78	125.78	2764.81	347763.00	0.00	0.00	0.00	347763.00	22289.57	0.00	
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.Morth Specification No.502 PWD SR 21-22 (P.No.29 It.No.5.1A(i), PWD SR 2021-22 (Vol-III))	Sqm	588.60	46.20	27193.32	588.60	48.51	28552.99	838.55	735.75	48.51	35691.00	102.80	48.51	4986.00	40677.00	12124.01	0.00	

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						Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount				
1	3	4				8	9	10	11	12	13	14	18	19	20		21		
10	Provi[illegible] and laying **Dense Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled,	Cum	29.43	10052.90	295856.85	29.43	10554.54	310620.11	41.93	36.79	10554.54	388275.00	5.14	10554.54	54249.00	442524.00	131903.89	0.00	
11	Providing and applying **tack coat** with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specifiction No. S03 (P.No.29 It.No.5.3, PWD SR 2021-22 (Vol-III))	Sqm	1962.00	15.40	30214.80	1962.00	16.17	31725.54	3493.95	2452.50	16.17	39656.00	1041.45	16.17	16840.00	56496.00	24770.46	0.00	
12	Providing and laying **Bituminous Concrete** with 40/60 TPH capacity hot mix plant using Crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical	Cum	78.48	11672.10	916026.41	78.48	12254.54	961736.30	139.76	98.10	12254.54	1202170.00	41.66	12254.54	510499.00	1712669.00	750932.70	0.00	
13	Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. Page No. 57/ Item No. 8.15 PWD SR 2021-22 (Vol-III).	Sqm	87.20	525.80	45849.76	87.20	552.04	48137.89	123.24	109.00	552.04	60172.00	14.24	552.04	7861.00	68033.00	19895.11	0.00	
14	Loading and unloading of stone Boulder/stone aggreagtes/sand/kankar/ morrums.(Tippers 14m3)(PWD SR 20121-22 Vol -III pg no 3 item no.1.1 C)	Cum	632.23	81.40	51463.52	632.23	85.46	54030.38	643.61	643.61	85.46	55003.00	0.00	0.00	0.00	55003.00	972.62		
15	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (Vol-III) Page No.3, Item No.1.4B of PWD SR 2021-22	T.km	7930.73	12.00	95168.76	7930.73	12.60	99927.20	8073.47	8073.47	12.60	101725.00	0.00	0.00	0.00	101725.00	1797.80		
	TOTAL				6355385.93			6672536.13				5537378.00			594435.00	6131813.00	978337.85	1519060.98	

Percentage Excess $\frac{978337.85}{6672536.13} \times 100 = 14.66\%$

ASSISTANT ENGINEER
Ward no.9 BBMP

Assistant Executive Engineer
ASSISTANT EXECUTIVE ENGINEER
Kodigehalli Sub Division
BBMP, Bangalore

EXECUTIVE ENGINEER
Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

EXTRA ITEM RATE LIST

NAME OF WORK: Modified Estimate for Improvements to Roads, Drains and Constructions of Culverts at Amruthahalli and Surrounding areas in Ward No. 09,

CONTRACTOR NAME:-Sri M Prakash

Estimated Cost : Rs 75.00 Lakhs

Tender Approved cost : Rs 66,72,536.13

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Sl. No	Description of work	Unit	Qty.	Rate	Amount	Whether the items are alter-native to items in tender schedule or whether being an additional item.	Whether the extra items is included in the sanctioned estimate.	How the expenditure due to the extra item is proposed to be met out.	Whether the item is included in the S.R. (Reference of SR to be given. If not data should accompany the EIRL.	Remarks
1	2	3	4	5	6	7	8	9	10	11
EIRL-1	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter	Cum	212.01	75.07	15915.00	Additional item.	No	By over all savings in the work	As per Rate Analysis 2021-22 SR	
EIRL-2	Construction of dry lean Cement concrete Sub- base over a prepared sub grade with coarse and fine aggregates confirming to IS :383, the size of coarse aggregates not exceeding 25mm, aggregates cement ratio not to exceed 15:1 agregates gradation aftr blending to be as per table 600-1 cement content not be less than 150kg/m3 optimum	Cum	41.09	4845.92	199109.00	Additional item.	No	By over all savings in the work	As per Rate Analysis 2021-22 SR	
EIRL-3	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using	Cum	41.09	7895.98	324430.00	Additional item.	No	By over all savings in the work	As per Rate Analysis 2021-22 SR	
					539454.00					

EIRL Amount	5,39,454.00	x 100	8.08%	excess
Over Amount put to tender	66,72,536.13			

Assistant Engineer
Ward No 9 BBMP

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
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